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	Application No.	Applicant(s)
Notice of Allowability	09/445,385	ZOLOTOREV ET AL.
	Examiner	Art Unit
	Thomas M. Ho	2134
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>8/4/04</u> .		
2. The allowed claim(s) is/are <u>1-29</u> .		
<ul> <li>3.</li></ul>		
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 8/4/04</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview Summary Paper No./Mail Da 98), 7. ☐ Examiner's Amendr	te



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## Reasons for Allowance

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1. The applicant has filed an RCE in response to the Notice of Allowance issued by the Examiner on 5/4/2004. In the RCE, no amendments to the claims were made, however, five additional Information Disclosure Statements were asked to be considered.

2. After a second Examination, the Examiner maintains that even in light of the submitted art of the Information Disclosure Statements, the claims as originally recited are held to be allowable. Nevertheless, some refinements have been made to the reasons for allowance as written in the Ex Parte Quayle action of 8/27/03.

In reference to claim 1, the claim recites the recitation of action of the creation of the blind digital signature "characterized in that during the step of creating the blinded data an RSA-encryption of the chosen initial data is performed". This recitation appears to be missing from the previous reasons for allowance, but it is held to be disclosed by Chaum in the previously cited art 4,759,064. As the cited passage relates to blind digital RSA signatures, it is inherent that the creation of that blind signature, at some point must comprise the RSA encryption process.

Furthermore, in light of the prior art cited by the Applicant, "Provably Secure Blind Signature Schemes" by pointcheval et al. (page 2, 2<sup>nd</sup> to last, and last paragraph) discloses another digital signature known as a Blind Schnorr Signature in which two large prime numbers p and q are

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chosen and published with an element g of (Z/pZ), otherwise known as a Ring structure in

abstract algebra. This relationship is held to be equivalent to two numbers g and p being coprime

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as an essential property of coprime numbers.

Furthermore, the Blind Schnorr scheme calls for the creation of a pair of keys such that

 $X \in \mathbb{Z}/q\mathbb{Z}$  and  $y = g^-x \mod p$ .

This scheme appears to disclose the additional masking factor g coprime to large prime number

p. However, this prime number is not an exponent, nor does the Schnorr blind digital signature

scheme expressly call for the use of RSA as its encryption scheme. No art of record or found

discloses the coprime masking factor to each admissible public RSA exponent in addition to the

other reasons for allowance have been found, nor is there any motivation to combine, and the

reasons for allowance remain substantially the same as set forth in the action of 8/27/03.

Accordingly, the claims are held to be allowable.

Conclusion

3. Any inquiry concerning this communication from the examiner should be directed to

Thomas M Ho whose telephone number is (571)272-3835. The examiner can normally be

reached on M-F from 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Gregory A. Morse can be reached on (571)272-3838.

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The Examiner may also be reached through email through Thomas. Ho6@uspto.gov

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-2100.

General Information/Receptionist

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**TMH** 

September 4<sup>th</sup>, 2005

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